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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,969	11/14/2003	Kenichi Kawase	09792909-5716	3182
26263 SONNENSCH	7590 09/21/2007 EIN NATH & ROSENTH	EXAMINER		
P.O. BOX 0610	080	WEINER, LAURA S		
WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080		OWER	ART UNIT	PAPER NUMBER
			1745	
			MAN DATE	DEL HIEDVA LODE
			MAIL DATE	DELIVERY MODE
			09/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/713,969	KAWASE ET AL.		
		Examiner	Art Unit		
		Laura S. Weiner	1745		
Donie d fe	The MAILING DATE of this communication app	pears on the cover sheet with	the correspondence address		
Period fo	• •				
WHIC - Exte after - If NC - Failu Any	IORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING Discussions of time may be available under the provisions of 37 CFR 1.1 of SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period cure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term.adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC, 36(a). In no event, however, may a repwill apply and will expire SIX (6) MONTS. cause the application to become ABA	ATION. Oly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. & 133)		
Status					
1)	Responsive to communication(s) filed on 30 Ju	ulv 2007.			
	2a) ☐ This action is FINAL . 2b) ☐ This action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the meri				
	closed in accordance with the practice under E				
Disposit	ion of Claims				
4)⊠	Claim(s) 1-9 and 11-21 is/are pending in the a	pplication			
	4a) Of the above claim(s) is/are withdrawn from consideration.				
	Claim(s) is/are allowed.				
	Claim(s) is/are rejected.		•		
7)	Claim(s) is/are objected to.				
8)⊠	Claim(s) 1-9, 11-21 are subject to restriction a	nd/or election requirement.			
Applicat	ion Papers	•	·		
	The specification is objected to by the Examine	ar			
•	The drawing(s) filed on is/are: a) ☐ acc		v the Examiner		
,	Applicant may not request that any objection to the				
	Replacement drawing sheet(s) including the correct	- · ·	• •		
11)	The oath or declaration is objected to by the Ex		•		
Priority ι	under 35 U.S.C. § 119		•		
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 1	119(a)-(d) or (f)		
	☐ All b)☐ Some * c)☐ None of:	. ,			
	1. Certified copies of the priority document	s have been received.			
	2. Certified copies of the priority document	s have been received in Ap	plication No		
	3. Copies of the certified copies of the prior	rity documents have been re	eceived in this National Stage		
	application from the International Bureau				
* 5	See the attached detailed Office action for a list	of the certified copies not re	eceived.		
	•				
Attachmen	t(s)				
	ce of References Cited (PTO-892)		mmary (PTO-413)		
_	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		Mail Date ormal Patent Application		
	er No(s)/Mail Date	6)			

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claim 1, drawn to a battery comprising en electrolyte comprising a VEC, classified in class 429, subclass 338.
 - II. Claims 2-9, drawn to a battery comprising a cathode containing a metal complex oxide, classified in class 429, subclass 231.1.
 - III. Claims 11-16, drawn to a battery comprising an electrolyte containing a polymeric material, classified in class 429, subclass 304.
 - IV. Claims 17-18, drawn to a battery comprising an electrolyte comprisingVEC and VC, classified in class 429, subclass 330.
 - V. Claims 19-21, drawn to a battery comprising an anode group comprisingSi., classified in class 429, subclass 218.1.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II and III and IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are unrelated because the are not disclosed as capable of use together and have different effects such that:

Invention I, claims a battery comprising an electrolyte comprising a VEC and an anode comprising a silicon or compound of silicon formed on an electric copper foil

current collector but does not claim that the electrolyte further comprises VC or a polymeric material, does not further define the cathode and does not claim method steps on how the anode material is formed on the current collector.

Invention II, claims a battery comprising an anode material formed on an electric copper foil current collector by a vapor-phase method and an electrolyte comprising VEC. Dependent claims further claim that the anode material comprises Si or a compound of silicon, the electrolyte further contains VC and a polymeric material and the cathode contains a metal complex oxide including lithium. Does not teach that the anode material is formed by a sintering method.

Invention III claims a battery comprising an anode material formed on an electrolytic copper foil current collector by a vapor-phase method and an electrolyte comprising VC. Dependent claims further claim that the anode material comprises Si or a compound of silicon, the electrolyte further contains a polymeric material and the cathode contains a metal complex oxide including lithium. Does not teach an electrolyte containing VEC.

Invention IV claims a battery comprising anode including silicon and the anode material formed on the collector by a sintering method and an electrolyte comprising VEC. Dependent claims further claim the electrolyte further contains VC. Does not teach an anode material formed on an electric or electrolytic current collector by a vapor-phase method or that the electrolyte further comprising a polymeric material or that the cathode contains a metal complex oxide including lithium.

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a. Invention V claims a battery comprising an anode including tin which is formed by a plating method and an electrolyte containing VEC. Dependent claims further claim the electrolyte contains VC and that the anode material is applied by heat treatment under vacuum atmosphere or non-oxidizing atmosphere. Does not teach that the anode current collector is made of an electric or electrolytic copper foil or that the cathode contains a metal complex oxide including lithium or that the electrolyte further comprise a polymeric material.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

3. A telephone call was not made due to the complexity to request an oral election to the above restriction requirement, therefore an election has not been made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not

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distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura S Weiner Primary Examiner Art Unit 1745

September 14, 2007